- f. Low reactor coolant flow ≥ 90% of normal indicated flow.
 - g. Low reactor coolant pump frequency > 57.5 Hz.

2.3.1.3 Other reactor trips

- a. High pressurizer water level < 92% of span
- b. Low-low steam generator water level ≥ 5% of narrow range instrument span
- 2.3.2 Protective instrumentation settings for reactor trip interlocks shall be as follows:
- 2.3.2.1 Remove bypass of "at power" reactor trips at high power (low pressurizer pressure and low reactor coolant flow) for both loops:

Power range nuclear flux - ≤ 8.5% of rated power

- (1) (Note: During cold rod drop tests, the pressurizer, high level trip may be bypassed.)
- 2.3.2.2 Remove bypass of single loss of flow trip at high power:

Power range nuclear flux - ≤ 50% rated power

- 2.3.3* Relay operating will be tested to insure that they perform according to their design characteristics which must fall in within the ranges defined below:
- 2.3.3.1* Loss of voltage relay operating time ≤ 8.5 seconds for 480 volt safeguards bus voltages ≤ 368 volts.

 Measured values shall fall at least 5% below the theoretical limit. This 5% margin is shown as the 5% tolerance curve in Figure 2.3-1.

*Effective 30 days after completion 2.3-4 of necessary modifications and no later than completion of the Spring 1982 Refueling outage.

Amendment No. 38 (Correction - May 1981)

2.3.3.2* Acceptable degraded voltage relay operating times and setpoints, for 480 volt safeguards bus voltages < 414 volts and > 368 volts are defined by the safeguard equipment thermal capability curve shown in Figure 2.3-1. Measured values shall fall at least 5% below the theoretical limit. This 5% margin is shown as the 5% tolerance curve in Figure 2.3-1.

Basis:

The high flux reactor trip (low set point) provides redundant protection in the power range for a power excursion beginning power. This trip value was used in the safety analysis. (1) from low In the power range of operation, the overpower nuclear flux reactor trip protects the reactor core against reactivity excursions which are too rapid to be protected by temperature and pressure protective circuitry. The overpower limit criteria is that core power be prevented from reaching a value at which fuel pellet centerline melting would occur. The reactor is prevented from reaching the overpower limit condition by action of the nuclear overpower and overpower AT trips. The high and low pressure reactor trips limit the pressure range in which reactor operation is permitted. The high pressurizer pressure reactor trip is also a backup to the pressurizer code safety valves for overpressure protection, and is therefore set lower than the set pressure for these valves (2485 psig). The low pressurizer pressure reactor trip also trips the reactor in the unlikely event of a loss of coolant accident. (3)

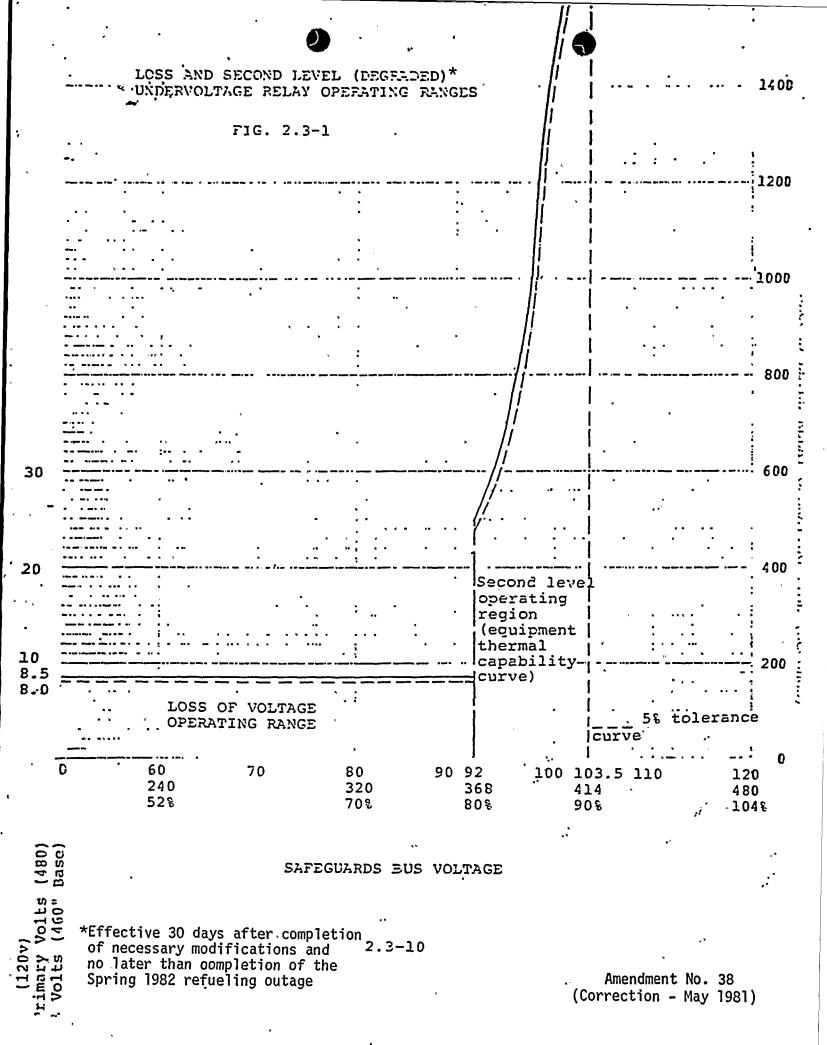
because the maximum enthalpy rise does not increase. For this reason the single pump loss of flow trip can be bypassed below 50% power.

The loss of voltage and degraded voltage trips ensure operability of safeguards equipment during a postulated design basis event concurrent with a degraded bus voltage condition. (9)(10)(11)

The undervoltage set points have been selected so that safeguards motors will start and accelerate the driven loads (pumps) within the required time and will be able to perform for long periods of time at degraded conditions above the trip set points without significant loss of design life. All control circuitry or safety related control centers and load centers, except for motor control centers M and L, are d.c. Therefore, degraded grid voltages do not affect these control centers and load centers. Motor control centers M and L, which supply the Standby Auxiliary Feedwater System, are fully protected by the undervoltage set points. Further, the Standby System is normally not in service and is manually operated only in total loss of feedwater and auxiliary feedwater.

The 5% tolerance curve in Figure 2.3-1 and the requirements of specifications 2.3.3.1 and 2.3.3.2 include 5% allowance for measurement error. Thus, providing the measurement error is less than 5%, measured values may be directly compared to the curve. If measurement error exceeds 5%, appropriate allowance shall be made.

^{*}Effective 30 days after completion of necessary modifications and no later than completion of the Spring 1982 refueling outage



Page	3	of	3
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Maintain hot shut-

down or place bus on diesel generator

				,	a	•	
		1 NO. of CHANNELS	2 NO. of CHANNELS TO TRIP	3 MIN. OPERABLE CHANNELS	4 MIN. DEGREE OF REDUNDANCY	5 PERMISSIBLE BYPASS CONDITIONS	6 OPERATOR ACTION IF CONDITIONS OF COLUMN 3 or 5 CANNOT BE MET,
17.	Circulating Water Flood Protection a. Screenhouse	2	1	2+	·_*	· ; .	Power operation may be continued for a period of up to 7 days with 1 channel inoperable or for a period of 24 constitution of the channels in the continue operable.
•	b.Condenser	2	1	2+	*		Power operation may be continued for a period of up to 7 days with 1 channel inoperable or for a period of 24 hrs. with two channels inoperable.
<u>1</u> / ₁₈ .	Loss of Voltag Degraded Volta 480 Volt Safe-	ige	,				

When block condition exists, maintain normal operation.

4/bus

2/bus

F.P. Full Power

guards.Bus

Not Applicable

If both rod misalignment monitors (a and b) inoperable for 2 hours or more, the nuclear overpower trip shall be reset to 93% of rated power in addition to the increased surveillance noted.

2/bus

If a functional unit is operating with the minimum operable channels, the number of channels to trip the reactor will be column 3 less column 4.

A channel is considered operable with 1 out of 2 logic or 2 out of 3 logic.

TABLE 4.1-1 (CONTINUED)

	Channel Description		Č	heck	<u>Calib</u>	rate	Test	:	Ren	narks	,	
25.	Containment Pressure			S	R		M			containment ig excluded)	pressure	£
26.	Steam Generator Pressu	re		s	R		М					
27.	Turbine First Stage Pro	essure		s	R		М					
28.	Emergency Plan Radiation	on		M	R		M	•				•
29.	Environmental Monitors			М	N.1	Α.	N.A.			-		
30.*	Loss of Voltage/Degrade Voltage 480 Volt Safe guards Bus			N.A.	R		М					•
S	- Each Shift	M	-	Monthl	У					-	•	
D	- Daily	P	-	Prior	to ead	ch st	artup i	f not do	one pre	vious week		
B/W	- Biweekly.	R		Each R	Refueli	ing S	hutdown	1				
Q	- Quarterly	N.A.	-	Not ap	plical	ole						•

Docket No. 50-244 LS05-81-

> Mr. John E. Maier Vice President Electric and Steam Production Rochester.Gas and Electric Corporation 89 East Avenue

RPSnaider **OELD** 01&E (5) ACRS (10) **RDiggs** JHe1temes Gray File Rochester, New York 14649 Xtra Cy (6) Dear Mr. Maier:

By letter dated March 26, 1981, we issued Amendment No. 38 to Provisional Operating License No. DPR-18 for the R. E. Ginna Nuclear Power Plant.

Amendment No. 38 approved technical specifications related to degraded grid voltage protection for the Class IE power system.

The amendment was inadvertantly made effective upon date of issuance without due consideration for the installation of necessary equipment. In order to rectify the situation, werhereby modify the date of effectiveness of this amendment (Item 3 on Page 2 of Amendment No. 38) to read: "Thirty (30) days after completion of required modifications and no later than the completion of the Spring 1982 Outage." This is the date which you have stated that such modifications can reasonably be completed.

A copy of a revised Notice of Issuance is enclosed.

Sincerely,

Dennis M. Crutchfield. Chief Operating Reactors Branch #5 Division of Licensing

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DEisenhut **HSmith**

Enclosures! Revised Notice of Issuance, Amendment No. 38 to License No. DPR-18

cc w/enclosure: See next page

#5/PMIDL:QRB.#5/C. DCrutchfield DL:AD/SA **GLainas**

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UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-244

ROCHESTER GAS AND ELECTRIC CORPORATION

REVISED NOTICE OF ISSUANCE OF AMENDMENT TO PROVISIONAL OPERATING LICENSE

On March 26, 1981, (46 F.R. 212295, April 9, 1981), the U. S. Nuclear Regulatory Commission issued Amendment No. 38 to Provisional Operating License No. DPR-18, to Rochester Gas and Electric Corporation (the licensee), which revised the technical specifications for operation of the R. E. Ginna Plant (the facility) located in Wayne County, New York.

The amendment was inadvertently made effective upon date of issuance without due consideration for the installation of necessary equipment. In order to rectify this situation, by letter dated

1981, the

Nuclear Regulatory Commission has modified the date of effectiveness of

Amendment No. 38 to License No. DPR-18 to be thirty (30) days after completion of required modifications and no later than the completion of the Spring

1982 Outage.

The amendment approved limiting conditions for operation and surveillance requirements regarding degraded grid voltage protection for the Class IE power system.

The application for the amendment complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendment. Prior public notice of the amendment was not required since the amendment does not involve a significant hazards consideration.

The Commission determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR \$51.5(d)(4) an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with issuance of this amendment.

For further details with respect to this action, see (1) the application for amendment dated September 9, 1980 (transmitted by letter dated September 15, 1980), as preceded and supported by submittals dated July 21, 1977, November 21, 1977, December 16, 1977 (transmitted by letter dated December 22, 1977), July 31, 1979 (transmitted August 3, 1979 - two separate submittals), and December 19, 1979, (2) Amendment No. 38 to License No. DPR-18, dated March 26, 1981, and (3) the Commission's related Safety Evaluation. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C. and at the Rochester Public Library, 115 South Avenue, Rochester, New York 14627. A copy of items (2) and (3) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Licensing.

Dated at Bethesda, Maryland, this

FOR THE NUCLEAR REGULATORY COMMISSION

Dennis M. Crutchfield, Chief Operating Reactors Branch #5 Division of Licensing NAY 12 1981